paragraph_id	text	seg_all	req_type	req_cat	s_ver_method	s_ver_status	a_ver_method	a_ver_status	req_key
DADS1472#A	Each DADS shall contain the appropriate capacity to respond to contingencies, scheduling problems, and peak loads	SDPS	functional	mission critical	demo	un-verified	test ~~demo~~	un-verified	4489
DADS1640#A	The DADS shall support the number of files derivable from Appendix C, with the ability to expand to match growth	SDPS	functional	mission essential	demo	un-verified	test ~~demo~~	un-verified	4566
DADS1806#A	Each DADS shall provide the capability of retrieving any data granule stored in the archives.	SDPS	functional	mission essential	demo	un-verified	test ~~demo~~	un-verified	4641
DADS2160#A	Each DADS shall maintain a list/schedule of standing orders.	SDPS	functional	mission essential	demo	un-verified	test ~~demo~~	un-verified	4448
DADS2170#A	Each DADS shall maintain a list/schedule of retrospective orders.	SDPS	functional	mission essential	demo	un-verified	test ~~demo~~	un-verified	4450
DADS2190#A	Each DADS shall maintain a list of products which could not be delivered electronically (e.g., workstation off-line)	SDPS	functional	mission essential	demo	un-verified	test ~~demo~~	un-verified	4453
DADS2370#A	Each DADS shall send to the user, at a minimum, the following: a. L0-L4 b. Special products (L1-L4) c. Metadata d. Ancillary data e. Calibration data f. Correlative data g. Documents h. Algorithms i. Planning and scheduling information	SDPS	functional	mission essential	demo	un-verified	test ~~demo~~	un-verified	4485
DADS2410#A	Each DADS shall distribute data from the archive in response to receipt of a product order from the IMS.	SDPS	functional	mission essential	demo	un-verified	test ~~demo~~	un-verified	4488
DADS2430#	Each DADS shall be capable of	SDPS	functional	mission	demo	un-verified	test	un-	4493

A	distributing any data granule stored in the archive.			essential			~~demo~~	verified	
DADS2460#A	Each DADS shall have a manual override function capable of altering the priority of a distribution request.	SDPS	functional	mission essential	demo	un-verified	test ~~demo~~	un-verified	4503
DADS2480#A	Each DADS shall distribute data based upon entries in the standing and the retrospective order distribution list.	SDPS	functional	mission essential	demo	un-verified	test ~~demo~~	un-verified	4504
DADS2530#A	The DADS shall be capable of distributing by physical media to meet user demand.	SDPS	functional	mission essential	demo	un-verified	test ~~demo~~	un-verified	4512
DADS2778#A	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.	SDPS	performance	mission essential	demo	un-verified	test ~~demo~~	un-verified	4519
DADS2900#A	Each DADS shall provide archival capacity for current volume requirements plus one year. Volume requirements are specified in Appendix C.	SDPS	performance	mission essential	demo	un-verified	analysis ~~demo~~	un-verified	4521
DADS3040#A	At each DADS backup media shall be removable from the DADS site (e.g., for safe off-site storage).	SDPS	performance	mission essential	inspection	un-verified	test ~~inspection~~	un-verified	4527
DADS3055#A	At each DADS all backup media shall be capable of being mounted automatically where appropriate, with the provision for manual failover.	SDPS	performance	mission essential	demo	un-verified	test ~~demo~~	un-verified	4528
DADS3110#A	Each DADS shall be capable of distributing data via physical media at a rate equivalent to the rate data are ingested at that DADS.	SDPS	performance	mission essential	demo	un-verified	test ~~demo~~	un-verified	4534
DADS3120#A	Each DADS shall distribute product QA data produced at the collocated PGS within 1 hour from the time it	SDPS	performance	mission fulfillment	demo	un-verified	test ~~demo~~	un-verified	4536

	is ready.								
DADS3125# A	Each DADS shall make archive data, associated with a pre-defined ECS standard format, that is requested for communications network delivery, available to the network in that ECS standard format within an average of 2 minutes after the receipt of a request for that data.	SDPS	performance	mission fulfillment	demo	un-verified	<u>test</u> ~~demo~~	un-verified	4538
DADS3126# A	Each DADS shall make archive data, associated with a pre-defined ECS standard format, that is requested for communications network delivery available to the network in a different ECS standard format within an average of 5 minutes after the request for that data.	SDPS	performance	mission fulfillment	demo	un-verified	<u>test</u> ~~demo~~	un-verified	4539
DADS3135# A	The DADS shall have the capability to support the transaction rate as specified in Table 7-4.	SDPS	performance	mission essential	demo	un-verified	<u>test</u> ~~demo~~	un-verified	4541
DADS3150# A	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data distribution services operated independently of the delivered ECS DADS services.	SDPS	functional	mission fulfillment	demo	un-verified	<u>inspection</u> ~~demo~~	un-verified	4545
DADS3160# A	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of an operator interface that may bypass the	SDPS	functional	mission fulfillment	demo	un-verified	<u>inspection</u> ~~demo~~	un-verified	5398

	delivered DADS operator interface.								
EOC-8285#A	The EOC shall support instrument integration activities associated with the spacecraft prior to launch.	FOS	functional	mission critical	demo	un-verified	analysis ~~demo~~	un-verified	4617
EOSD0020#A	ECS shall use and support the EDOS/EBnet interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality.	FOS | SDPS | CSMS	operational	mission critical	test	un-verified	demo ~~test~~	un-verified	6314
EOSD0510#A	ECS shall be capable of being tested during all phases of its development and flight operations.	SDPS | CSMS	functional	mission essential	test	un-verified	analysis ~~test~~	un-verified	6309
EOSD0560#A	ECS benchmark tests and test data sets shall be defined for system verification and data quality evaluation.	SDPS | CSMS	procedural	mission essential	test	un-verified	demo ~~test~~	un-verified	6210
EOSD0630#A	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	FOS | SDPS | CSMS	functional	mission essential	demo	un-verified	analysis ~~demo~~	un-verified	4795
EOSD0720#A	Each ECS element shall be able to validate at any time during the life-time of the ECS that the ECS element primary functional performance is consistent with pre-defined operational benchmark tests.	SDPS | CSMS	functional	mission critical	test	un-verified	demo ~~test~~	un-verified	6213
EOSD0760#A	Each ECS element shall support end-to-end EOS system testing and fault isolation.	FOS | CSMS	functional	mission critical	demo	un-verified	analysis ~~demo~~	un-verified	4806
EOSD0800#A	Each ECS element shall be capable of supporting end-to-end test and	FOS | SDPS |	functional	mission critical	demo	un-verified	analysis ~~demo~~	un-verified	4808

	verification activities of the EOS program including during the pre-launch, spacecraft verification, and instrument verification phases.	CSMS								
EOSD1705#A	ECS shall support interfaces to DAAC Unique components.	SDPS | CSMS	procedural	mission fulfillment	analysis	un-verified	demo ~~analysis~~	un-verified	4833
EOSD1710#A	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data	SDPS | CSMS	interface	mission fulfillment	demo	un-verified	test ~~demo~~	un-verified	4834
EOSD1720#A	ECS elements shall receive from the ECS user community the following types of data requests at a minimum: b. Data Distribution Requests c. Reprocessing Requests	SDPS | CSMS	interface	mission essential	demo	un-verified	test ~~demo~~	un-verified	4835
EOSD1990#A	The ECS system and elements shall employ security measures and techniques for all applicable security disciplines which are identified in the preceding documents. These documents shall provide the basis for the ECS security policy.	FOS | SDPS | CSMS	security	mission essential	analysis	un-verified	inspection ~~analysis~~	un-verified	4840
EOSD3200#A	A minimum of one backup which is maintained in a separate physical location (i.e., different building) shall be maintained for ECS software and key data items (including security audit trails and	FOS | SDPS | CSMS	security	mission critical	inspection	un-verified	test ~~inspection~~	un-verified	5086

	logs).								
EOSD3500# A	The ECS RMA Program shall adhere to GSFC 420-05-03, Performance Assurance Requirements for the EOSDIS.	FOS | SDPS | CSMS	procedural | RMA	mission essential	demo	un-verified	inspection ~~demo~~	un-verified	5583
EOSD3510# A	Reliability predictions shall be calculated in accordance with the parts count analysis method, Appendix A, of MIL-HDBK-217F, Reliability Prediction of Electronic Equipment.	FOS | SDPS | CSMS	procedural | RMA	mission fulfillment	test	un-verified	inspection ~~test~~	un-verified	5582
EOSD3600# A	Maintainability shall be predicted in accordance with MIL-HDBK-472, Maintainability Prediction, Procedure IV.	FOS | SDPS | CSMS	procedural | RMA	mission fulfillment	test	un-verified	inspection ~~test~~	un-verified	5584
EOSD3620# A	ECS shall predict and periodically assess maintainability by measuring the actual MDT and comparing to the required MDT.	CSMS	RMA	mission fulfillment	test	un-verified	analysis ~~test~~	un-verified	5106
EOSD3625# A	For ECS functions with a backup capability, ECS shall use switchover time to the backup capability in measuring maintainability, rather than down time, when the component goes down.	FOS | SDPS | CSMS	procedural | RMA	mission fulfillment	test	un-verified	inspection ~~test~~	un-verified	5587
EOSD4100# A	The ECS segments, elements, and components shall include the on-line (operational mode) and off-line (test mode) fault detection and isolation capabilities required to achieve the specified operational availability requirements.	FOS | SDPS | CSMS	RMA	mission essential	test	un-verified	demo ~~test~~	un-verified	5169
EOSD5030# A	ECS shall enable the addition of information search and retrieval services, e.g. WAIS, WWW.	SDPS | CSMS	evolvable	mission fulfillment	demo	un-verified	test ~~demo~~	un-verified	5177

EOSD5250#A	ECS shall enable access to configuration controlled applications programming interfaces that permit development of DAAC-unique value added services and products where DAAC-unique value added services may consist of one or more of the following types of developments: a. Visualization utilities and products b. Data sets and inter-data set usability utilities and products c. Data analysis utilities d. Special subsetting capabilities (e.g. dynamic) e. On-line analysis functions f. New search and access techniques g. Data acquisition planning and utilities h. Experimental QA techniques i. Non-digital data utilities and products j. System Management Functions	SDPS | CSMS	evolvable	mission fulfillment	analysis	un-verified	inspection ~~analysis~~	un-verified	5185
ESN-0003#A	The ESN shall enable researchers on existing networks (TCP/IP and GOSIP) to gain access to data and ECS services in a transparent manner to the underlying differences between the networks.	CSMS	functional	mission essential	analysis	un-verified	test ~~analysis~~	un-verified	5189
ESN-0006#A	ESN shall interface with NSI to reach all external non-ECS network-attached facilities and science users.	CSMS	functional	mission essential	analysis	un-verified	test ~~analysis~~	un-verified	5194
ESN-1180#A	The ESN shall interoperate with NSI to provide user access to ECS.	CSMS	functional	mission critical	test	un-verified	analysis ~~test~~	un-verified	5233

ESN-1330#A	The ESN shall provide ISO/OSI data communications protocols and services specified in the GOSIP (see Figure 8-3) to external interfaces as required by the IRDs.	CSMS	functional	mission essential	analysis	un-verified	~~test~~ analysis	un-verified	5239
ESN-1340#A	The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs.	CSMS	functional	mission critical	analysis	un-verified	~~test~~ analysis	un-verified	5241
IMS-0100#A	The IMS shall support, at a minimum: a. Interactive sessions b. Non-interactive remote sessions c. Client-server interface	SDPS	interface	mission essential	inspection	un-verified	~~demo~~ inspection	un-verified	5472
IMS-0120#A	The IMS shall provide, dependent upon the user's display device capabilities, a user-friendly interface with the following features at a minimum: a. Multiple window display b. Buttons and pull down menus c. Valid lists for all variables d. An information base of associations between variables (e.g., between instruments and geophysical parameters) f. Context-sensitive help g. Minimal and consistent use of non-standard keys h. Random movement through fields j. Standardized use of commands and terminology across screens k. Self-explanatory, meaningful error messages	SDPS	functional	mission essential	inspection	un-verified ~~TBD~~	~~demo~~ inspection	un-verified ~~TBD~~	5474

	l. Automatic acronym expansion, which can be enabled and disabled interactively m. Availability of a menu tree diagram n. Command language								
IMS-0150#A	The IMS shall supply a uniform user interface for access to the following at a minimum: a. Heterogeneous data sets b. Communications networks c. Data bases that are geographically dispersed d. Multi-disciplined directories and inventories	SDPS	security	mission fulfillment	demo	un-verified	analysis ~~demo~~	un-verified	5477
IMS-0170#A	The IMS user interface shall be designed so that restructuring of the IMS data bases shall not result in the need for changes to the IMS interface.	SDPS	evolvable	mission fulfillment	analysis	un-verified	demo ~~analysis~~	un-verified	5478
IMS-0350#A	The IMS shall provide the capability for authorized personnel to add, delete, or modify ECS metadata entries, individually or in groups.	SDPS	security	mission critical	inspection	un-verified	demo ~~inspection~~	un-verified	5492
IMS-0510#A	The IMS shall provide tools for research planning and data search, to include at a minimum: a. Data acquisition schedules and plans b. The capability to map specified geophysical parameters to the appropriate instrument and/or Standard Product c. Descriptive information on instruments and geophysical parameters available in Standard	SDPS	interface	mission critical	demo	un-verified ~~TBD~~	inspection ~~demo~~	un-verified ~~TBD~~	5509

	Products d. Climatology information f. Geographic reference aids g. Spacecraft location projections.								
IMS-0665#A	The IMS shall provide informational messages to indicate that a query is being executed, and shall provide the capability for the user to abort any time-intensive operations.	SDPS	functional	mission essential	demo	un-verified	<u>test</u> ~~demo~~	un-verified	5525
IMS-0690#A	The IMS shall provide the capability to visualize pre-order data products and metadata (e.g. coverage maps, summary data) to facilitate the data selection and ordering process.	SDPS	functional	mission essential	demo	un-verified	<u>test</u> ~~demo~~	un-verified	5528
IMS-0740#A	The IMS shall provide the capability for users to generate and update requests for one-time orders or standing orders for the DADS to distribute DADS archive holdings to include, at a minimum, Standard Products, Standard Product software, spacecraft housekeeping and ancillary data.	SDPS	functional	mission essential	demo	un-verified	<u>test</u> ~~demo~~	un-verified	5529
IMS-1080#A	The IMS shall accept requests for acquisition of data to be processed one time or as standing orders.	SDPS	functional	mission critical	demo	un-verified	<u>test</u> ~~demo~~	un-verified	5548
IMS-1645#A	The IMS shall accept from the users and output to the SMC, user feedback information, which shall contain the following at a minimum: a. Product data quality assessment b. Schedule performance assessment	SDPS	interface	mission fulfillment	demo	un-verified	<u>test</u> ~~demo~~	un-verified	5564

	c. Evaluation of quality of ECS service								
IMS-1665#A	he IMS shall provide to the SMC, IMS services usage by each user (to include at a minimum user name, IMS service identification, date/time stamp, time expended, facilities used) for later reporting and determination of access patterns.	SDPS	interface	mission fulfillment	test	un-verified	~~demo~~ ~~test~~	un-verified	5568
IMS-1765#A	The IMS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of the following extensions to the ECS IMS by the DAACs, ECS and other users: a. Addition of metadata fields that are unique to the data maintained at a specific DAAC b. Addition of documents for use as guide metadata for DAAC-specific data products c. Development of DAAC-specific data acquisition request utilities d. Support of data visualization utilities for DAAC-specific products e. Support of DAAC-specific data analysis utilities f. Development of DAAC-unique metadata search and access services that will operate independent of the	SDPS	functional	mission essential	test	un-verified	inspection ~~test~~	un-verified	5574

	delivered ECS IMS services g. Development of a local user interface that can bypass the delivered ECS user interface for accessing DAAC-unique metadata search and access services								
SDPS0120#A	The SDPS shall be capable of operating in a 24-hour a day, 7-day a week mode.	SDPS	operational	mission essential	test	un-verified	analysis ~~test~~	un-verified	4206
SDPS0170#A	The SDPS shall accommodate growth in the instrument processing load and storage capacity without changes to the SDPS architecture or design.	SDPS	evolvable	mission essential	test	un-verified	analysis ~~test~~	un-verified	4209
SMC-2115#A	The LSM shall convey for site or element implementation, the managerial and operational directives regarding the allocation or upgrade of any elementÍs hardware and scientific and systems software.	CSMS	functional	mission essential	analysis	un-verified	demo ~~analysis~~	un-verified	4235
SMC-2505#A	The LSM shall update the system-wide inventory data base consisting of all hardware, system software, and scientific software contained within its element.	CSMS	functional	mission critical	test	un-verified	demo ~~test~~	un-verified	4273
SMC-2605#A	The LSM shall support the site and element in implementing ESDIS Project policies and procedures received from the SMC covering the following areas, at a minimum: a. Element responsibility and authority b. Resource management c. Fault recovery d. Testing	CSMS	security	mission fulfillment	analysis	un-verified	demo ~~analysis~~	un-verified	4282

	e. Simulation f. Maintenance g. Logistics h. Performance evaluation i. Training j. Quality and product assurance k. Inventory management l. System enhancements m. Finance management n. Administrative actions o. Security								
SMC-3345#A	The LSM shall perform quality assurance for its site/elements performance as well as programmatic areas that includes, at a minimum: a. Quality testing, benchmarks and audits for element enhancement implementations b. Quality checking and audits of products processed and delivered c. Quality testing and audits of element resource performance,	CSMS	functional	mission critical	analysis	un-verified	~~demo~~ ~~analysis~~	un-verified	4301
SMC-3370#A	For each performance parameter, the SMC shall have the capability of establishing multiple levels of thresholds to include, at a minimum: a. On/off b. Pass/fail c. Various levels of degradation	CSMS	functional	mission critical	analysis	un-verified	~~test~~ ~~analysis~~	un-verified	4304
SMC-3421#A	The SMC shall analyze user feedback information supporting the development of recommended remedial or enhancement actions.	CSMS	functional	mission essential	analysis	un-verified	~~inspection~~ ~~analysis~~	un-verified	6087
SMC-	The LSM shall perform	CSMS	security	mission	analysis	un-verified	inspection	un-	4343

| 5345#A | compromise (e.g., virus or worm penetration) risk analysis, and detection. | | | critical | | | ~~analysis~~ | verified | |